25

ntor: Darel N. Emmot ket No.: 10001769-1; Page 1 of 13



Į	A	:			
	REG. D	REG. H	REG. L	REG. P	
	REG. C	REG. G	REG. K	REG. O	
	REG. B	REG. F	REG. J	REG. N	
	REG. A	REG. E	REG. I	REG. M	

Title: Graphics Processing System
In the pr.: Darel N. Emmot
Docket No.: 10001769-1; Page 2 of 13



25	
•	
	4

1															
		•													
16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
13	29	45	61	11	93	109	125	141	157	173	189	205	221	237	253
14	28	44	09	76	92	10	124	14	15	172	18	204	22	23	251
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
10	26	42	58	74	06	106	122	138	154	170	186	202	218	234	250
6	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
9	22	38	54	70	98	102	118	134	150	166	182	198	214	230	246
5	21	37	53	69	85	101	117	133	149	165	18	197	213	229	245
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
က	19	35	51	29	83	66	115	131	147	163	179	195	211	227	243
2	18	34	20	99	82	86	114	130	146	162	178	194	210	226	242
_	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
SCAN LINE 1	SCAN LINE 2	SCAN LINE 3	SCAN LINE 4	SCAN LINE 5	SCAN LINE 6	SCAN LINE 7	SCAN LINE 8	SCAN LINE 9	SCAN LINE 10	SCAN LINE 11	SCAN LINE 12	SCAN LINE 13	SCAN LINE 14	SCAN LINE 15	SCAN LINE 16

Title: Graphics Processing System ator: Darel N. Emmot Socket No.: 10001769-1; Page 3 of 13

....

- 1	120							
! 	ADD.	DATA	ADD.		<u>ADD</u>	_ <u>DATA</u>	ADD.	DATA
	20010	PIXEL 1	20120	PIXEL 5	32450	PIXEL 9	40590	PIXEL 13
H. Scan	20011	PIXEL 2	20121	PIXEL 6	32451	PIXEL 10	40591	PIXEL 14
Line 1	20012	PIXEL 3	20122	PIXEL 7	32452	PIXEL 11	40592	PIXEL 15
! 	20013	PIXEL 4	20123	PIXEL 8	32453	PIXEL 12	40593	PIXEL 16
 	20014	PIXEL 17	20124	PIXEL.21	32454	PIXEL 25	40294	PIXEL 29
H. Scan	20015	PIXEL 18	20125	PIXEL 22	32455	PIXEL 26	40595	PIXEL 30
Line 2	20016	PIXEL 19	20126	PIXEL 23	32456	PIXEL 27	40596	PIXEL 31
اا ا ا	20017	PIXEL 20	20127	PIXEL 24	32457		40597	
	20018	PIXEL 33	20128	PIXEL 37	32458	PIXEL 41	40598	PIXEL 45
H. Scan	20019	PIXEL 34	20129	PIXEL 38	32459	PIXEL 42	40599	PIXEL 46
Line 3	20020	PIXEL 35	20130	PIXEL 39	32460	PIXEL 43	40600	PIXEL 47
] 	20021	PIXEL 36	20131	PIXEL 40	32461	PIXEL 44	40601	PIXEL 48
	20022	PIXEL 49	20132	PIXEL 53	32462	PIXEL 57	40602	PIXEL 61
H. Scan	20023	PIXEL 50	20133	PIXEL 54	32463	PIXEL 58	40603	PIXEL 62
Line 4	20024	PIXEL 51	20134	PIXEL 55	32464	PIXEL 59	40604	PIXEL 63
	20025	PIXEL 52	20135	PIXEL 56	32465	PIXEL 60	40605	PIXEL 64
 	-	 Region A	.	Region B	Regi	Region C	I Reć Reć	Region D

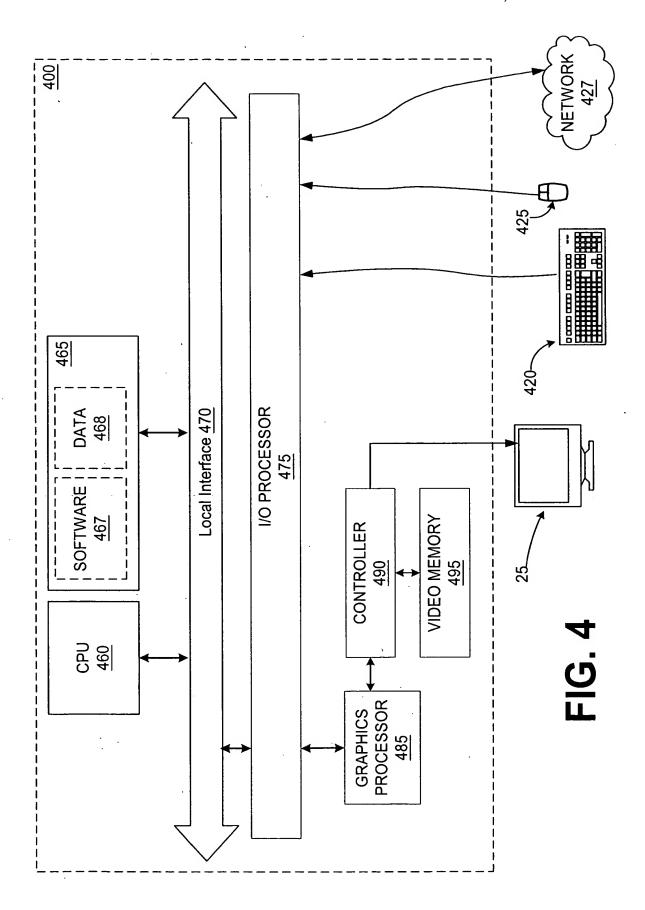
PRIOR ART

120

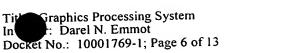
e: Graphics Processing System tor: Darel N. Emmot et No.: 10001769-1; Page 4 of 13 PIXEL 16 PIXEL 32 PIXEL 48 PIXEL 45 PIXEL 46 PIXEL 13 PIXEL 14 PIXEL 15 PIXEL 29 PIXEL 62 PIXEL 64 PIXEL 30 PIXEL 61 **Path**を PXE Region D 40592 40595 40596 40598 40599 40603 40605 40590 40593 40600 40602 40904 40594 40597 40601 ADD. PLXEL-14 PIXEL 10 PXEC 28 PIXEL 59 PIXEL 12 PIXEL 25 PIXEL 42 PIXEL 58 PIXEL 26 PIXEL 41 PIXEL 43 PIXEL 60 PIXEL 9 PIXEL 11 PIXEL 27 PIXEL 57 DATA Region C 32453 32454 32458 32465 32456 32459 32460 32461 32463 32450 32452 32455 32457 32462 32464 32451 ADD. PIXEL 6 PIXEL 22 PIXEL 24 PIXEL 40 PIXEL 8 PIXEL 21 PIXEL 55 PIXEL 56 PIXEL 38 PIXEL 39 PIXEL 55 PIXEL 54 PIXEL 23 PIXE PIXEL 5 PIXEL 7 DATA Region B 20124 20128 20129 20130 20133 20135 20125 20126 20132 20120 20122 20123 20131 20121 ADD. 20127 PIXEL 36 PIXEL 4 PIXEL 17 PIXEL 20 DATA PIXEL 19 PIXEL 33 PIXEL 35 PIXEL 49 PIXEL 2 PIXEL 18 PIXET 34 PIXEL 52 PIXEL 51 PIXEL 3 PIXEL 1 Region A 20013 20014 20016 20018 20019 20020 20021 20025 20012 20017 20023 20010 20011 20024 ADD.

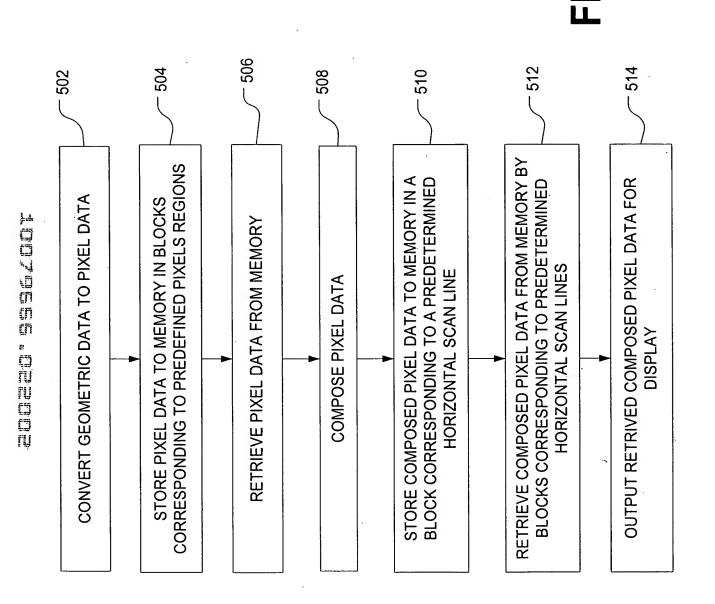
FIG. 3B PRIOR ART

Title: Graphics Processing System entor: Darel N. Emmot scket No.: 10001769-1; Page 5 of 13



raphics Processing System





Title: Graphics Processing System tor: Darel N. Emmot Decket No.: 10001769-1; Page 7 of 13

4	<u>495</u>								
	ADD.	DATA	ADD.	DATA	ADD.	DATA	ADD.	DATA	
	20010	PIXEL 1	20120	PIXEL 5	32450	PIXEL 9	40590	PIXEL 13	
	20011	PIXEL 2	20121	PIXEL 6	32451	PIXEL 10	40591	PIXEL 14	
	20012	PIXEL 3	20122	PIXEL 7	32452	PIXEL 11	40592	PIXEL 15	••••
:	20013	PIXEL 4	20123	PIXEL 8	32453	PIXEL 12	40593	PIXEL 16	
 	20014	PIXEL 17	20124	PIXEL 21	32454	PIXEL 25	40594	PIXEL 29	
	20015	PIXEL 18	20125	PIXEL 22	32455	PIXEL 26	40595	PIXEL 30	
	20016	PIXEL 19	20126	PIXEL 23	32456	PIXEL 27	40596	PIXEL 31	
<u>i</u>	_ 20017	PIXEL 20	20127	PIXEL_24	32457	PIXEL 28	40597	PIXEL_32	1
	20018	PIXEL 33	20128	PIXEL 37	32458	PIXEL 41	40598	PIXEL 45	
	20019	PIXEL 34	20129	PIXEL 38	32459	PIXEL 42	40599	PIXEL 46	
	20020	PIXEL 35	20130	PIXEL 39	32460	PIXEL 43	40600	PIXEL 47	•••••
	20021	PIXEL 36	20131	PIXEL 40	32461	PIXEL 44	40601	PIXEL 48	ا اا
 	20022	PIXEL 49	20132	PIXEL 53	32462	PIXEL 57	40602	PIXEL 61	
	20023	PIXEL 50	20133	PIXEL 54	32463	PIXEL 58	40603	PIXEL 62	
	20024	PIXEL 51	20134	PIXEL 55	32464	PIXEL 59	40904	PIXEL 63	
	20025	PIXEL 52	20135	PIXEL 56	32465	PIXEL 60	40605	PIXEL 64	
	Reg	Region A	Œ	Region B	Re	Region C	u.	Region D	
.;									

FIG. 6

Title: Graphics Processing System for: Darel N. Emmot Levet No.: 10001769-1; Page 8 of 13



~	, , DAT <i>A</i> ,	PIXEL 49	PIXEL 50	PIXEL 51	PIXEL 52	PIXEL 53	, PIXEL 54	, PIXEL 55	PIXEL 56	PIXEL 57	PIXEL 58	PIXEL 59	PIXEL 60	PIXEL 61	PIXEL 62	PIXEL 63	PIXEL 64	Line 4	
	ADD.	62450	62451	62452	62453	62454	62455	62456	62457	62458 /	62459	62480	62461	62462	/62463	, 62464	, 62465	H. Scan Line 4	
				1		,													
	, DAŢĀ	PIXEL 33	PIXEL 34	PIXEL 35	/ PIXEL 36	, PIXEL 37	PIXEL 38	PIXEL 39	PIXEL 40	PIXEL 41	PIXEL 42	PIXEL 43	PIXEL 44	PIXEL 45	PIXEL 46	PIXEL 47	PIXEL 48	Line 3	
	ADD.	60590	60591	60592	60593	60594	60595	/96509	60297	88209	66969	0090,6	,60601	7 60602	60603	60604	60605	H. Scan Line 3	
				r	1			ı			ı	-			` ` `	`	`		
*		17 -	L 18	PIXEL 19	PIXEL 20	PIXEL 21	PIXEL 22	PIXEL 23	- 24	- 25	- 26	PIXEL 27	PIXEL 28	PIXEL 29	PIXEL 30	L 31	. 32		
	, ATAD	PIXEL 17	PIXEL 18	ΑĞ.	XIA,	N PIXI	PIXE	PIXE	PIXEL 24	PIXEL 25	PIXEL 26	PIXE	PIX	E N	PIX	PIXEL 31	PIXEL 32	ine 2	
	ADD. DAT/	50120 PIXEL	50121 PIXE	50122 PAXE	50123 APIXE	50124 , PIXI	50125 / PIXE	50126 / PIXE	50127 / PIXEI	50128 PIXE			50131 PIXE	£0132 PIX	, 50133 PIXE	, 50134 PIXE	50135 PIXEL	H. Scan Line 2	
			<u></u>				-,												,
	ADD.	50120	50121	50122	50123	50124	50125 /	50126		50128	50129	50130	50131	60132	/ 50133	50134	, 50135		· · · · · · · · · · · · · · · · · · ·
		50120	<u></u>				-,												
	ADD.	50120	50121	50122	50123	50124	50125 /	50126	50127	50128	50129	50130	50131	60132	/ 50133	50134	, 50135		,

FIG. 7A

Graphics Processing System tor: Darel N. Emmot Docket No.: 10001769-1; Page 9 of 13



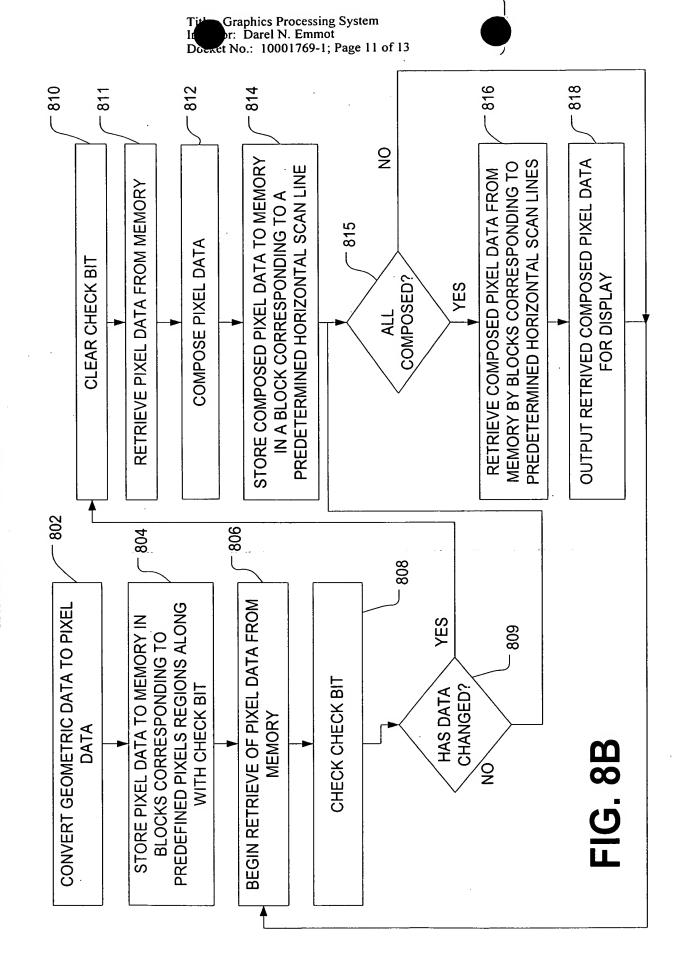
```	DATĄ	PIXEL 49	PIXEL 50	PIXEL 51	PIXEL 52	PIXEL 53	, PIXEL 54	PIXEL 55	PIXEL 56	PIXEL 57	PIXEL 58	PIXEL 59	PIXEL 60	PIXEL 61	PIXEL 62	PIXEL 63	PIXEL 64	H. Scan Line 1	(4th Quarter)
	ADD.	62450	62451	62452	62453	62454	62455	62456	62457 /	62458 /	62459	62400	62461	62462	,62463	, 62464	/ 62465	, H. Scal	/ (4th Q
	DAŢA	PIXEL 33	PIKEL 34	PIXEL 35	, PIXEL 36	/ PIXEL 37	PIXEL 38	PIXEL 39	PIXEL 40	PIXEL 41	PIXEL 42	PIXEL 43	PIXEL 44	PIXEL 45	PIXEL 46	PIXEL 47	PIXEL 48	H. Scan Line 1	(3rd Quarter)
	ADD.	60590	60591	60592	60593	60594	60595 /	60596	60297	80209	66909	0090,6	,/60601	/ 60602	/ 60603	60604	60605	H. Sca	(3rd C
	ſ			Ι	T		ı	T	Τ		· · ·	I				` _ `	` ` `	`	٠,,
	DATA	PIXEL 17	PIXEL 18	PAXEL 19	PIXEL 20	/ PIXEL 21	/ PIXEL 22	PIXEL 23	PIXEL 24	PIXEL 25	PIXEL 26	PIXEL 27	PIXEL 28	PIXEL 29	PIXEL 30	PIXEL 31	PIXEL 32	Scan Line 1	uarter)
	ADD.	50120	50121	50122	. 50123	50124	50125	50126	50127 /	50128	50129	50130	50131	60132	, 50133	50134	, 50135	H. Scan	(2nd quarter)
			ļ <b>_</b> -	ļ	Ι_	<u> </u>	<u> </u>	I	<u> </u>	Γ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	 	Ι	<u> </u>	`\  -	`\ 
	DATA	PIXEL 1	PIXEL 2	PIXEL 3	PIXEL 4	PIXEL 5	PIXEL 6	PIXEL 7	PIXEL 8	PIXEL 9	PIXEL 10	PIXEL 11	PIXEL 12	PIXEL 13	PIXEL 14	PIXEL 15	PIXEL 16	H. Scan Line 1	(1st quarter)
	ADD.	50010	50011	50012	50013	50014	50015	50016	50017	50018	50019	50020	50021	50022	50023	50024	50025	H. Sca	(1st q

FIG. 7B

: Graphics Processing System ntor: Darel N. Emmot Locket No.: 10001769-1; Page 10 of 13

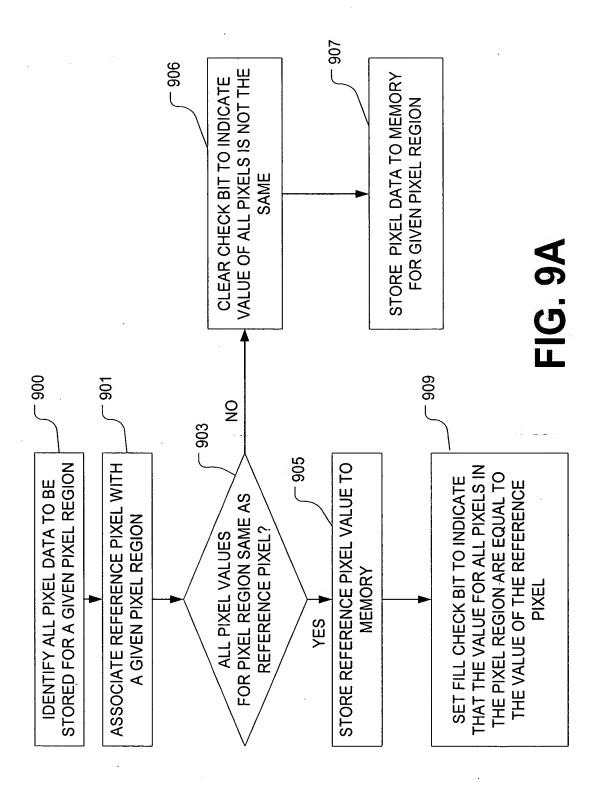


Check Bit 1	Check Bit 2	Check Bit 3	Check Bit 4	Check Bit 5	Check Bit 6	Check Bit 7	Check Bit 8	Check Bit 9	Check Bit 10	Check Bit 11	Check Bit 12	Check Bit 13	Check Bit 14	Check Bit 15	Check Bit 16
52450	52451	52452	52453	52454	52455	52456	52457	52458	52459	52460	52461	52462	52463	52464	52465



Title: Graphics Processing System Inventor: Darel N. Emmot

Docket No.: 10001769-1; Page 12 of 13



Title: Graphics Processing System ventor: Darel N. Emmot Socket No.: 10001769-1; Page 13 of 13

